

## PATENT SPECIFICATION

587,290



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## PROVISIONAL SPECIFICATION

## An Improved Holder for a Roll of Paper

I, MONTOLIEU MURRAY OLIPHANT IRVING, of 32, Bellingdon Road, Chesham, Buckinghamshire, a British Subject, do hereby declare the nature of this invention to be as follows:—

This invention relates to a fixture adapted to hold a roll of paper, e.g. toilet paper or gummed wrapping strip.

An object of this invention is to provide such a fixture which prevents an excessive length of paper from being accidentally unwound and which permits a fresh roll to be easily inserted.

According to this invention, the fixture includes a body having a surface adapted when the fixture is in use to lie vertically or nearly so, a mandrel adapted to fit freely within a roll of paper and to project at both ends thereof, two limbs projecting from said body and provided respectively with two bearing surfaces which are inclined downwardly towards said body surface and which are adapted to support the projecting ends of said mandrel, and means for preventing any substantial endwise movement of said mandrel. Provided the roll is mounted with its free end passing downward at the line of contact between the roll and said body surface, a sharp downward tub on this end will tend to make the mandrel roll down the said inclined surfaces so that it urges the roll against the said body surface and thus checks its tendency to unwind excessively.

A toilet-roll holder in accordance with

the invention may comprise a unitary sheet metal pressing adapted to be made by two pressing operations, and forming a back plate adapted to be screwed to a wall or a door, and two parallel side wings projecting forwards from the respective ends of the back plate and spaced apart at a distance slightly exceeding the length of the roll. Each wing is slit vertically from its upper edge at two places respectively near to and remote from the back plate. The broad and short tongue of metal that projects upwards between the slits is bent outwards at right angles to the wing about a line which joins the bottoms of the slits and which is inclined downwards towards the back plate at an angle of 30° to the horizontal. The border of this tongue adjacent to this bend forms the supporting surface for the end of the mandrel, which may be a wooden rod or metal tube say  $\frac{1}{2}$  in. longer than the roll. Each tongue is bent upwards through a right angle about a line parallel to and  $\frac{1}{4}$  in. from the first-mentioned bend, so that it limits endwise movement of the mandrel while permitting it to be easily raised out of and dropped into the fixture.

The back plate may be provided with a shallow longitudinal ridge adapted to contact with a roll in place in the fixture.

Dated this 2nd day of October, 1944.

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## COMPLETE SPECIFICATION

## An Improved Holder for a Roll of Paper

I, MONTOLIEU MURRAY OLIPHANT IRVING, of 32, Bellingdon Road, Chesham, Buckinghamshire, a British Subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a fixture adapted to hold a roll of paper, e.g. toilet paper or gummed wrapping strip, intended to be unrolled by a user's pulling

the depending free end of the paper and of the kind including a body having a surface adapted when the fixture is in use to lie vertically or nearly so, a mandrel adapted to fit freely within a roll of paper and to project at both ends thereof, and two side members projecting from the body and supporting the ends of said mandrel in such a manner that it tends to move obliquely downwards towards the body surface.

The object of this invention is to pro-

vide such a fixture of simple and neat design and permitting a fresh roll to be easily inserted.

According to this invention, the fixture includes two wings projecting forwardly from said body parallel to one another and provided respectively at least, at the lower portions of their forward edges with two flanges projecting towards each other to support the ends of the mandrel and inclined downwardly towards said body surface, the portions of said wings between said flanges and the top edges of the wings providing plane parallel surfaces for preventing any substantial endwise movement of the mandrel while permitting the mandrel to be lifted out vertically. The mandrel may thus be a rod or tube of uniform circular section. Provided the roll is mounted with its free end passing downward at the line of contact between the roll and said body surface, a sharp downward tug on this end will tend to make the mandrel roll down the inclined ledges so that it urges the roll against the body surface and thus checks its tendency to unwind excessively.

A toilet-roll holder in accordance with the invention is shown by way of example in the accompanying drawing.

The holder comprises a unitary sheet metal pressing adapted to be made by two pressing operations, and forming a back plate 1 adapted to be screwed to a wall or a door, and two parallel side wings 2, 2 projecting forwards from the ends of the back plate respectively and spaced apart at a distance exceeding the length of the roll by about  $\frac{1}{2}$  in. The lower portion of the front edge of each wing is provided with a flange 3 bent inwards at right angles to the main part of the wing and about  $\frac{1}{4}$  in. wide. The upper end part of each flange is parallel to the back plate, while the remainder is inclined downwards towards the back plate at an angle  $\alpha$  of  $40^\circ$  to  $45^\circ$ . The flanges 3 form the supporting ledges for the ends of the

mandrel 4, which may be a wooden rod or metal tube  $\frac{1}{2}$  in. longer than the roll 5. 50

The lower part of the back plate may be bent slightly outwards and be provided with a serrated edge 6 in order to facilitate parting the paper.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A fixture adapted to hold a roll of paper intended to be unrolled by a user's pulling the depending free end of the paper, and including a body having a surface adapted when the fixture is in use to lie vertically or nearly so, a mandrel adapted to fit freely within a roll of paper and to project at both ends thereof, and two wings projecting forwardly from said body parallel to one another and provided respectively at least, at the lower portions of their forward edges with two flanges projecting towards each other to support the ends of the mandrel and inclined downwardly towards said body surface, the portions of said wings between said flanges and the top edges of the wings providing plane parallel surfaces for preventing any substantial endwise movement of the mandrel while permitting the mandrel to be lifted out vertically. 80

2. A fixture as claimed in claim 1, and comprising a unitary sheet metal pressing forming a back plate and two parallel side wings projecting forwards from the ends of the back plate respectively, said mandrel being of uniform circular section. 85

3. A fixture as claimed in claim 1 or 2, wherein said flanges are inclined at between  $40^\circ$  and  $45^\circ$  to said body surface.

4. The toilet-roll fixture hereinbefore described as an embodiment of the invention and shown in the accompanying drawing. 90

Dated this 31st day of October, 1945.

REDDIE & GROSE,  
Agents for the Applicant,

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